

BEGIN

Reel # 127

From:

Fedorov, Ye. L

YAKERSON, Matvey Semenovich; TSYBUL'SKIY, Vladimir Abramovich. Prinimali uchastie: LABUDIN, I.A.; FEDOROV, Ye.L.; KELLO, I.O.; CHIZHEVSKIY, A.L.; POLENOV, A.N.; NIKITIN, M.N.; IVANOV, I.I.; GEYET, N.V.; FEDOROV, Ye.Y.; FEDOSOV, M.G. YEG. ROVA, K.I., red.; ONOSHIKO, N.G., tekhn.red.

[The "Znamia Truda" Factory; a brief account of the "Znamia Truda" Armature Factory in Leningrad] Znamia truda; kratkii ocherk istorii leningradskogo armaturnogo zavoda "Znamia truda," 1960. 207 p. (MIRA 14:4)

(Leningrad--Factories)

FEDOROV, Ye.M., inzhener; MILEYKOVSKIY, E.Z., inzhener.

Production computer on excavators. Mekh.stroi. 10 no.6:14-15 Ja '53.
(MLRA 6:6)
(Excavating machinery)

1. 17. 17.
 ANDON'YEV, V.L.; BAUM, V.A.; BAUMGARTEN, N.K.; BEREZIN, V.D.; BIRYUKOV, I.K.;
 BIRYUKOV, S.M.; BLOKHIN, S.I.; BOROVY, G.A.; BULEV, M.Z.; BURAKOV,
 N.A.; VERTSAYZER, B.A.; VOVK, G.M.; VORMAN, B.A.; VOSHCHININ, A.P.;
 GALAKTIONOV, V.D., kand. tekhn. nauk; GENKIN, Ye.M.; GIL'DENBLAT,
 Ye.D., kand. tekhn. nauk; GINZBURG, M.M.; GLEBOV, P.S.; GODES, E.G.;
 GORBACHEV, V.N.; GRZHIB, B.V.; GREKULOV, L.F., kand. s.-kh. nauk;
 GROMZHENSKAYA, I.Ya.; DANILOV, A.G.; DMITRIYEV, I.G.; DMITRIYENKO,
 Yu.D.; DOBROKHOTOV, D.D.; DUBININ, L.G.; DUNDUKOV, M.D.; ZHOLIK,
 A.P.; ZENKEVICH, D.K.; ZIMAREV, Ye.V.; ZIMASOV, S.V.; ZUBNIK, K.M.;
 KARANOV, I.F.; KNYAZEV, S.N.; KOLMAAYEV, N.F.; KORMANOVSKIY, V.F.;
 KOSTENKO, V.P.; KORMISTOV, D.V.; KOSTROV, A.A.; KOTLYARSKIY, D.M.;
 KRIVSKIY, M.M.; KUZNETSOV, A.Ya.; LAGAR'KOV, N.I.; LAGALOV, V.G.;
 LIKHACHEV, V.P.; LOGUNOV, P.I.; MATSEVICH, K.F.; MEL'NICHENKO,
 K.I.; MENDELEVICH, I.R.; MIKHAYLOV, A.V., kand. tekhn. nauk;
 MUSIYVA, R.N.; NATANSON, A.V.; NIKITIN, M.V.; OYES, I.S.;
 OGUL'NIK, G.R.; OSIPOV, A.D.; OSMER, N.A.; PETROV, V.I.; PERYSHKIN,
 G.A., proz.; P'YANKOVA, Ye.V.; RAPOPORT, Ye.D.; REMEZOV, N.P.;
 ROZANOV, M.P., kand. biol. nauk; ROCHEGOV, A.G.; RUBINCHIK, A.M.;
 RYBCHEVSKIY, V.S.; SADCHIKOV, A.V.; SEMENTSOV, V.A.; SIDENKO, P.M.;
 SINYAVSKAYA, V.T.; SITAROVA, M.N.; SOSNOVIKOV, K.S.; STAVITSKIY,
 Ye.A.; STOLYAROV, B.P. [deceased]; SUDZILOVSKIY, A.O.; SYRTSOVA,
 Ye.D., kand. tekhn. nauk; FILIPPSKIY, V.P.; KHALTURIN, A.D.;
 TSISHEVSKIY, P.M.; CHERKASOV, M.I.; CHERNYSHEV, A.A.; CHUSOVITIN,
 N.A.; SHESTOPAL, A.O.; SHEKHTER, P.A.; SHISHKO, G.A.; SHCHERBINA,
 I.N.; ENGEL', F.F.; YAKOBSON, A.G.; YAKUBOV, P.A., ARKHANGEL'SKIY,
 (Continued on next card)

ANDON'YEV, V.L.... (continued) Card 2.

Ye.A., retsenzont, red.; AKHUTIN, A.N., retsenzont, red.; BALASHOV, Yu.S., retsenzont, red.; BARABANOV, V.A., retsenzont, red.; BATUNER, P.D., retsenzont, red.; BORODIN, P.V., kand. tekhn. nauk, retsenzont, red.; VALUTSKIY, I.I., kand. tekhn. nauk, retsenzont, red.; GRIGOR'YEV, V.M., kand. tekhn. nauk, retsenzont, red.; GUBIN, M.F., retsenzont, red.; GUDAYEV, I.N., retsenzont, red.; YERMOLOV, A.I., kand. tekhn. nauk, retsenzont, red.; KARAULOV, B.F., retsenzont, red.; KRITSKIY, S.N., doktor tekhn. nauk, retsenzont, red.; LIKIN, V.V., retsenzont, red.; LUKIN, V.Y., retsenzont, red.; LUSKIN, Z.D., retsenzont, red.; MATRIROSOV, A.Kh., retsenzont, red.; MENDELEYEV, D.M., retsenzont, red.; MENKEL', M.F., doktor tekhn. nauk, retsenzont, red.; OBRZHKOV, S.S., retsenzont, red.; PETRASHEN', P.N., retsenzont, red.; POLYAKOV, L.M., retsenzont, red.; RUMYANTSEV, A.M., retsenzont, red.; RYABOCHIKOV, Ye.I., retsenzont, red.; STASHENKOV, N.G., retsenzont, red.; TAKANAYEV, P.F., retsenzont, red.; TARANOVSKIY, S.V., prof., doktor tekhn. nauk, retsenzont, red.; TIZDEL', R.E., retsenzont, red.; FEDOROV, Ye.M., retsenzont, red.; SHKVIYAKOV, M.N., retsenzont, red.; SHMAKOV, M.I., retsenzont, red.; ZHUK, S.Ya. [deceased], akademik, glavnyy red.; FISO, G.A., kand. tekhn. nauk, red.; FILIMONOV, N.A., red.; VOLKOV, L.N., red.; GRISHIN, M.M., red.; ZHURIN, V.D., prof., doktor tekhn. nauk, red.; KOSTROV, I.N., red.; LUKHACHEV, V.P., red.; MEDVEDEV, V.M., kand. tekhn. nauk, red.; MIKHAYLOV, A.V., kand. tekhn. nauk, red.; PETROV, G.D., red.; RAZIN, N.V., red.; SOBOLEV, V.P., red.; FERINGER, B.P., red.; FREYGOFFER, (Continued on next card)

ANDON'YEV, V.L.... (continued) Card 3.

Ye.F., red.; TSYPLAKOV, V.D. [deceased], red.; KORABLINOV, P.N.,
tekhn. red.; GINKIN, Ye.M., tekhn. red.; KACHEROVSKIY, N.V., tekhn.
red.

[Volga-Don; technical account of the construction of the V.I. Lenin
Volga-Don Navigation Canal, the TSimlyansk Hydroelectric Center,
and irrigation systems] Volgo-Don; tekhnicheskii otchet o stroitel'-
stve Volgo-Don'skogo sudokhodnogo kanala imeni V.I. Lenina, TSim-
lianskogo gidrouzla i orositel'nykh sooruzhenii, 1949-1952; v piati
tomakh. Moskva, Gos. energ. izd-vo. Vol.1. [General structural
descriptions] Obshchee opisanie sooruzhenii. Glav. red. S.IA. Zhuk.
Red. toma M.M. Grishin. 1957. 319 p. Vol.2. [Organization of con-
struction. Specialised operations in hydraulic engineering] Orga-
nizatsiia stroitel'stv. Spetsial'nye gidrotekhnicheskie raboty.

(Continued on next card)

ANDON'YEV, V.I.... (continued) Card 4.

Glav. red. S.IA. Zhuk. Red. toma I.N. Kostrov. 1958. 319 p.

(MIRA 11:9)

1. Russia (1923- . U.S.S.R.) Ministerstvo elektrostantsii. Byuro tekhnicheskogo otcheta o stroitel'stve Volgo-Dona. 2. Chlen-korrespondent Akademii nauk SSSR (for Akhutin). 3. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Grishin, Razin).

(Volga Don Canal--Hydraulic engineering)

8/589/62/000/058/002/002
A001/A101

AUTHORS: Panchenko, N. I., Fedorov, Ye. P.
TITLE: On determining the coordinates of the pole for time service
SOURCE: USSR, Komitet standartov, mer i izmeritel'nykh priborov. Trudy institutov Komiteta, no. 58 (118), 1962, Issledovaniya v oblasti izmereniy vremeni, 39 - 64

TEXT: The first chapter contains the history of the problem of determining pole coordinates for the purposes of time service and the criticism of the activities of the International Latitude Service, SIL, which did not assure the furnishing of necessary data for time service. As this drawback was evident for the Soviet astronomers, the 10th All-Union Astronomical Conference, held at Pulkovo on December 8 - December 11, 1952, elaborated the plan and principal lines for activities of the Soviet Latitude Service, which are described in the second chapter. The latter started operations in May 1953 after the approval of the plan by the Astronomical Council at the AS USSR. The Soviet Latitude Service carried out calculations of preliminary pole coordinates by A. Ya. Orlov's method which is based

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On determining the coordinates of the...

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on two main assumptions: 1) The annual component of the pole motion is assumed to proceed along an ellipse whose shape and orientation relative to the Earth do not change, and 2) the Chandler component is described, within short time intervals, by a circular and uniform motion; equations of both elliptic and circular motion are given, and a numerical example of calculation by Orlov's method of pole coordinates from 1952.6 to 1953.7 is presented. The Soviet Latitude Service uses the data furnished by the following institutions: 1) The Main Astronomical Observatory, AS USSR, at Pulkovo, 2) The Gravimetric Observatory, AS UkrSSR, at Poltava, 3) The Astronomical Observatory imeni Engel'gardt at Kazan', and 4) the Latitude Station imeni Ulug-Bek at Kitab. The authors discuss the nature and variations of the non-polar component of latitude variations, the so-called Kimura z-term, and point out that prior to 1958 the calculation of pole coordinates by Orlov's method was performed after excluding the z-term, but since 1958 this practice was changed and the z-term has not been excluded in calculations. The third chapter describes the organization of the Rapid Latitude Service, SIR, by the 9th Congress of the International Astronomical Union, which started speedy calculations of pole coordinates in January 1956. The authors criticize the basic operational principle laid by Director of the Central Bureau of SII, Cecchini,

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consisting in requirement that the polhody of the International Latitude Service should serve as a test for the correctness of the results obtained by SIR. The inadequacy of this assumption, in the authors' opinion, follows from the incorrect assumption, by Cecchini, of the permanence of mean values of latitudes of the stations. They describe also the methods used by Director of the International Time Bureau, N. M. Stoyko, for calculating the mean coordinates of the pole based on observations with zenith-telescopes at Belgrad, Carloforte, Kitab, Midzusava, Poltava, Pulkovo, with photographic zenith-telescopes at Washington, Greenwich, Ottawa, Richmond, Tokio, and Danjon prismatic astrolabes at Algiers and Paris. The fourth chapter deals with reduction of pole coordinates to a common system. It consists of two problems: 1) reduction to the mean pole of the epoch of observations, and 2) reduction to the mean pole of some initial epoch. The first problem was completely solved by Orlov whose method is briefly outlined. The second problem is considered as being not yet solved, and the procedure used by Cecchini of reducing the observations to the "barycenter of the 1900-1905 polhody" is criticized as being not correct. The authors illustrate their statement by presenting the graph of pole motion according to calculations by the International Time Bureau, Soviet Latitude Service and International Latitude Service, which

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shows the divergence of the polhody calculated by the latter from the former. two. The fifth and sixth chapter deal with estimates of the accuracy of determination of pole coordinates and their extrapolation to the future. It is concluded that extrapolation is admissible only for short time periods, not exceeding 0.5 years, which is sufficient for practical purposes. In conclusion the author: advance a proposal of establishing a scientific center for the assembly and analysis of all latitude observations and performance of fundamental research. There are 3 figures and 9 tables. ✓

Card 4/4

FEDUROV, Ya.P.

Experience in the operation of ZhR-5 transmitter-receiver sets.
Avtom., telem.i svyaz' 6 no.11:39-40 N '62. (MIRA 15:11)

1. Staryshiy inzhener Likhoborskoy distantsii signalizatsii i svyazi
Moskovskoy dorogi.
(Railroads—Electronic equipment) (Railroads—Communication systems)

FEDOROV, Ye.P.

An antenna mast for the ZhR-5 radio transmitter. Avtom., telem. i
svyaz' 7 no.1:39 Ja '63. (MIRA 16:2)

1. Starshiy inzh. distantsei signalizatsii i svyazi Moskovsko-Okrushnogo
otdeleniya Moskovskoy dorogi.

(Railroads—Communication systems) (Radio—Antennas)

FEDOROV, Ye. P.[Fedorov, IE. P.]

This is what the scientists say. Znan. ta pratsia no.10:8
0 '62. (MIRA 15:10)

1. Chlen-korrespondent AN UkrSSR,

(Life on other planets)

FEDOROV, Ye. P.

How we have increased the operational reliability of loudspeaker
announcing systems. Avtom. telem. i sviaz' 8 no. 3:36-37 Mr '64.
(MIRA 17:5)

1. Starshiy inzh. Moskovsko-Okruzhnoy distantssii signalizatsii
i svyazi Moskovskoy dorogi.

FEDOROV, Yo.P.

Forum of the explorers of the universe; the 12th Congress of
the International Astronomical Union. Priroda 54 no.3:81-86
Mr '65. (MIRA 18:4)

1. Chlen-korrespondent AN UkrSSR.

FEDOROV, E. P.		PROCESSING AND PROPERTY INDEX		100 AND 6TH CODES	
3A				B-67	
<p>OPERATIONAL TEST OF THE TAIL RACE OF HYDRO-ELECTRIC STATIONS IN DERIVATION. S. Ya. Vartazarov and E. P. Fedorov. Glavotekhn. Stroit. (No 3) 24-8 (1950) In Russian.</p>					
<p>It is important that the tailrace be dimensioned for the total water volume in all hydraulic conditions which can arise in the derivation, and unstable and transient conditions must especially be considered, on account of the great length of these tailraces. (A series of different types, taken from existing stations, is individually discussed.) Particular attention must also be devoted to the joints in the facing or rendering of the race, as frequently infiltrations were found to endanger the sub-structures. The setting up of longitudinal, building-up waves can only occur where the gradient exceeds 0.015-0.02, on straight sections of more than 300-400 m length and with a smooth finish.</p>					
B. F. Kraus					
<p>430-114 DETAILING LITERATURE CLASSIFICATION</p>					

FEDOROV, E. P.

1046. Fedorov, E. P. Surge occurrence in chutes (in Russian), *Gidrotekhnicheskii sbornik* 23, 1, 23-27, Mar. 1954.
Author checked with [illegible] and Fedorov on
chutes of different length and slope and found both inadequate
to predict the size and location of the produced jump.
S. Kolupsis, USA

and Tech Soc

FEDOROV, Ye.P., kandidat tekhnicheskikh nauk.

On the article "Study of the action of running waves on hydraulic structures." Gidr.stroi. 26 no.6:54-55 Je '57' / (MLRA 10:7)
(Waves) (Hydraulic engineering)

FEDOROV, Ye.P., kandidat tekhnicheskikh nauk.

Causes of wave formation in chute spillways and measures to prevent it.
Gidr.stroi.25 no.6:48-51 J1 '56. (MIRA 9:9)
(Spillways)

SOV/98-59-8-13/33

3(5), 30(1)

AUTHOR:

Fedorov, Ye.P., Candidate of Technical Sciences

TITLE:

Wave-Formation in Fast-Flowing Rivers

PERIODICAL:

Gidrotekhnicheskoye stroitel'stvo, 1959, Nr 8, pp 48-49 (USSR)

ABSTRACT:

This is an answer to a critique by M.R. Razumovskaya (Ref.1) of an article on wave-formation in fast-flowing rivers (Refs.2 and 4) and reproaches her for rejecting without proof, many of the conclusions drawn in articles by the author of the article. These included the importance of the area covered by the current, for which Razumovskaya replaces the index of area $R_0 H_0$ by $H_0/6$. However, this is criticized on the ground that it does not take the shape of the cross-section of the river-bed into consideration, as well as the breadth and depth. The suggested causes of wave-formation are found to be incorrect, or rather, incompletely researched, factors such as energy produced, the speed and the length of the stream flow being ignored. Razumovskaya also incorrectly criticized fig.2 in the original article, but her proposed project for the wave stream, given in fig.1 of her critique, is rejected as being unrealistic, since it shows no turbulence on the river-bed. She is also criti-

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Wave-Formation in Fast-Flowing Rivers

cized for failing to pay enough attention to the variation in depth, speed and volume of the current between the crest and the "tail" of waves, and for not fully understanding statements by Vedernikov and Kornish on wave-formation and the relation between energy and erosion, which she quoted. The author states that the reasons for wave-formation given in ref.2 are based on work by Vedernikov, Dressler, Kornish and research by the TNISGEI (Tiflis Scientific Research Institute of Construction and Hydraulic Power). The next point of criticism is that the critique by Razumovskaya contained certain false data concerning wave-structure, the effect of aeration, etc, particularly the contention that the power of wave-formation depends on the purely arbitrary value Q_{rasch} . The author cites the examples of the Tsnori, Bershyetskaya, Baksan, and Ezminskaya rivers, where the stream flow is less than 25% of Q_{rasch} , and the Staraya, and Novaya Achalukskaya and Tetrichevskaya, where it amounts to more than 40%. The statement that wave-formation decreases as the inclination of the river-bed increases is also refuted, the reverse being actually the case, in addition to the contention that there is no connec-

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Wave-Formation in Fast-Flowing Rivers

tion between the speed of the current and wave-formation. The author concludes with some general remarks on the criticized article's lack of specific evidence in the form of graphs, indications of research methods used, etc., pointing out that the reason that some of the data provided is so difficult to understand is due to erroneous measuring carried out at the GruzNIIGiM. A short summary of the initial arguments is given at the end. There are 4 Soviet references.

Card 3/3

FEDOROV, Ye.P.

Principles of the modern theory of polar movements. Trudy Polt.grav.
obser. 2:3-20 '48. (MLRA 8:1)
(Earth--Rotation)

DROZDOV, S.V.; FEDOROV, Ye.P.

Latitude variations at Poltava for the period 1945.5 - 1946.5.
Trudy Polt.grav.obser. 2:57-61 '48. (MIRA 8:1)
(Poltava--Latitude variation)

FEDOROV, Ye.P.

Determining the value of a screw turn on the micrometer from
observations of scalar pairs compiled on the basis of Washington
zenith stars. Trudy Polt.grav.obser. 2:79-83 '48. (MLRA 8:1)
(Micrometer)

PA 3/50746

FEDOROV, YE. P.

USSR/Geophysics - Ocean
Terrestrial Motion

1 Aug 49

"Influence of Fluctuations in the Ocean's Level,
Caused by the Motion of the Earth's Poles, Upon
This Motion," Ye. P. Fedorov, 4 pp

"Dok Ak Nauk SSSR" Vol LXVII, No 4

Fluctuations of instantaneous axis of rotation of
the earth are accompanied by changes in centrifugal
force potential, this causing certain changes in
the form of the ocean's surface. Shifts in water
masses which occur also have a reciprocal influence

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USSR/Geophysics - Ocean (Contd)

1 Aug 49

upon the movement of the instantaneous axis of ro-
tation, causing a slight increase in its period of
free nutation. Considers jointly the influence of
fluctuations of the ocean's level and elastic
deformations of the solid part of the earth's
spheroid, considering actual distribution of land
and water on the earth's surface. Submitted by
Apost L. B. Leybenzon 9 Jun 49.

3/50746

FEDOROV, Ye.P.

Causes for changes in the inclination of the axis and azimuth
of meridian instruments. Trudy Polt.grav.obser. 3:126-148 '50.
(Astronomical instruments)
(MLRA 8:1)

FEDOROV, Ye.P.; KULAGIN, S.G.

APPROVED FOR RELEASE Thursday, July 27, 2000 CIA-RDP86-00513R00041271
to September 1, 1950. Astron.tair. no.105:4-5 S '50. (MLRA 6:8)

1. Poltavskaya Observatoriya.
(Poltava--Latitude variation) (Latitude variation--Poltava)

FEDOROV, Ye.P.

Consideration of the effect of ocean tides in studying the lunar-solar
variations in the force of gravity. Trudy Polt.grav.obser. 4:88-102 '51.
(Gravity) (MLRA 6:6)
(Tides)

FEDOROV, Ye.P.

New program for the latitude service and its testing in Poltava. Trudy
Polt.grav.obser. 4:294-327 '51. (MLRA 6:6)
(Stars--Observations) (Latitude variation)

FEDOROV, Ye.P.

Studying the ocular micrometer of the Wanschaff vertical circle. Trudy
Polt.grav.obser. 4:347-360 '51. (MLRA 6:5)

(Vertical circle) (Micrometer)

FEDOROV, YE. P.

USSR/Astronomy - Nutation

1 Oct 51

"Separate Determination of the Coefficients of the Main Terms of Nutation in Declination and Longitude," Ye. P. Fedorov, Poltava Obs of Acad Sci. Ukrainian SSR

"Dok Ak Nauk SSSR" Vol LXXX, No 4, pp 569-572

Investigates the error in nutation for various errors in the other variables measured. Compares results with actual observations. Submitted 5 Jul 51 by Acad V. G. Fesenkov.

222F34

1. FEDOROV, Ye. P.
2. USSR (600)
4. Poltava - Latitude Variation
7. Latitude variations for Poltava in 1950. Astron.tsir, No. 110, 1951.
9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

FEDOROV, YE. P.

PA 251T02

USSR/Academy of Sciences

Sep 52

"Third Conference on Latitudes," Ye. P. Fedorov, Cand Phys-Math Sci

Vest Ak Nauk SSSR, No 9, p 117

The following two reports were read at the Third All-Union Conference on Latitudes in Poltava: K.A. Kulikov, Dr Phys-Math Sci, "Latitude Service - International and Soviet"; Ye. P. Fedorov of the Poltava Gravimetric Observatory, "Study of the Inner Structure of the Earth by Methods of Astronomy and Gravimetry." A new method for determining the coordinates of poles was proposed by A. Ya. Orlov, Corr Mem, Acad Sci USSR

251T82

PEODOROV, Ye. P.

PA 227137

USSR/Astronomy - Moon's Oscillations 1 Aug 52

"Tunar Half-Monthly Oscillations in Latitude According to Observations at the Stations of Karloforte and Yukaia From 1899 to 1934" Ye. P. Pedorov, Ye. I. Yevushenko, Gravimetric Obs of Acad Sci Ukrainian SSR, Poltava

"Dok Ak Nauk SSSR" Vol 85, No 4, pp 731, 732

Gives the results of operating on all the published observations at the 2 subject stations (namely, 66,220 observations at Karloforte, and 65,736 observations at Yukaia). States that in the analysis of the half-monthly oscillations

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of latitude they detd 2 waves: tidal and nutational. Submitted by Acad V.G. Fesenkov
7 Jun 52.

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1. FEDOROV, YE. P. and YEVTUSH'YENKO, YE. I.
2. USSR (600)
4. Latitude Variation-San Pietro, Italy
7. Semimonthly lunar variations in latitude bases on observations made at stations in Carloforte and Ukiak from 1899-1934. Astron.tsir. no. 126, 1952.
9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

1. FEDOROV, Ye. P.
2. USSR (600)
4. Poltava - Latitude Variation
7. Latitude variations at Poltava from simultaneous observations on two zenith telescopes during the period 1950.9--1952.2. Astron. tsir. No. 126, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

FEDOROV, Ye P.

USSR/Astronomy - Geographical
Latitudes

1 Aug 53

"Slow Non-Polar Variations of Latitudes," Ye. P.
Fedcrov, Poltava Obs Acad Sci USSR

DAN SSSR, Vol 91, No 4, pp 759-762

Outlines results of observational analysis of the Central Bureau of International Latitude Service which confirm correctness of principles introduced by the Poltava program and correctness of suggestions for changes in the program of MSSh introduced by Soviet astronomers. Presented by Acad V. G. Fesenkov, 5 Jun 53.

272T33

FEDOROV, E.P.

Variations in the latitude of Poltava in 1952 from simultaneous observations
on two zenith telescopes. Astron. tsir. no. 135:4 P '53. (MLRA 6:6)

1. Poltavskaya observatoriya.

(Poltava--Latitude variation)

AKSENT'YEVA, Z.N.; FEDOROV, Ya.P.

A.IA.Orlov; obituary. Astron.tsir. no.146:1 F '54. (MIRA 7:6)

1. Poltava, Observatoriya. (Orlov, Aleksandr Iakovlevich, 1880-1954)

FEDOROV, Ye.P.

Daily lunar wave in latitude variations. Astron. tsir. no.148:12
Ap '54. (MLRA 7:8)

1. Observatoriya (Poltava)
(Latitude variation)

FEDOROV, Ye.P.

Results of observations made on two zenith telescopes at Poltava
from 1949.8 to 1954.2. Astron.tsir. no.149:7-8 My '54. (MLRA 7:7)

1. Poltava, Observatoriya.

(Poltava--Latitude variation) (Latitude variation--Poltava)

FEDOROV, Ye.P.; PANCHENKO, N.I.

Motion of the pole in 1952 from data of the International and
Soviet Latitude Service. Astron. tsir. no. 149:8-10 My '54. (MLRA 7:7)

1. Poltava, Observatoriya.
(North Pole)

POPOV, N.A.; ~~FEDOROV, Ya.P.~~

Problem of methods for observing deflection of a light ray in
the solar field of gravity. Astron.teir. no.151:21-22 J1 '54.
(MLRA 8:3)

1. Observatoriya, Poltava.
(Eclipses, Solar--1954) (Light)

FEDOROV, Ye.; YEVTUSHENKO, Ye.

Daily latitude variations according to observations made on two
zenith telescopes at Poltava. Astron.tsir. no.152:17-18 S '54.
(MLRA 8:3)

1. Poltava observatoriya.
(Poltava--Latitude variation)

FEDOROV, Ye. P.

PANCHENKO, V. I.; FEDOROV, Ye. P.

Movement of the earth's pole according to data from the International and the Soviet Latitude Services. Astron. tsir. no. 156:8-9
Ja'55. (MIRA 8:10)

1. Observatoriya, Poltava
(Latitude variation)

FEDOROV, Ya. P.

Determining the constant of nutation from observations of the
International Latitude Service. Astron. tsir. no. 164:10-12 0 '55.
(MLRA 9:5)

1. Observatoriya, Poltava.
(Nutation)

FEDOROV, Ye.P.

~~Extrapolation of polar coordinates. Astron. tsir. no. 164:13-15~~
0 '55. (MLRA 9:5)

1. Observatoriya, Poltava.
(Coordinates, Polar)

^E
FYODOROV, YE, P.

"The Computation of the Pole Co-ordinates" (Section III) -a paper
submitted at 11th General Assembly of International Union of Geodesy and Geophysics,
3-14 Sep 57, Toronto, Canada.

C-3,800,146

FEDOROV, Ye. P. Doc Phys-Math Sci -- (diss). "Mutation and forced movement of the earth's poles according to data of latitudinal observations."

Pulkovo, 1957. 14 pp (Acad Sci USSR. Main Astronomic Observatory), 100 copies (KL, 44-57, 98)

FEDOROV, Ye. P.,

"Computing the Coordinates of the Pole," The International Association of Geodesy; Abstracts of the Reports of the XI General Assembly of the International Union of Geodesy and Geophysics, Moscow, Izd-vo AN SSSR, 1957. 63 p.

The systematic errors in the coordinates of the Pole published by the Central Bureau of the International Latitude Service (ILS) are caused by an insufficient number (3-6) of observations. The regular latitude observations are now conducted at 13 stations and will be increased probably to more than 20 during the IGY. With a sufficiently large number of stations participating in this program, the inherently weak loop method of calculations is still the most acceptable as some difference in the systems of declinations at various stations will not significantly affect the results. Mean latitudes are determined by A Orlov's method.

FEDOROV, YE. P.

20-6-9/48

AUTHOR: Fedorov, Ye.P.

TITLE: On the Forces of Interaction Between the Earth's Core and Crust Occurring in Consequence of the Nutation (O silakh vzaimodeystviya yadra i obolochki zemli, voznikayushohikh vsledstviye nutatsii)

PERIODICAL: Doklady AN SSSR, 1957, Vol. 115, Nr 6, pp. 1084-1087 (USSR)

ABSTRACT: When investigating the rotational motion of the earth's crust it is necessary to consider the effect of the exterior disturbing forces of attraction of the moon and the sun and also the forces of interaction between crust and core. At first formulae for the temporary modification of the kinetic moment of the earth's crust and of the kinetic moment of the whole earth are given. It is not possible to determine the coefficients of all nutation terms from the observations and therefore the author confined himself to the determination of the fundamental terms and of the half-month terms. The result obtained can be described as follows: The mobility of the earth's core with regard to the earth's crust has the following effects: 1) An extension of the modulus of the

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vector $\vec{U}_1 = 0",217a_g e^{+iat}$ (Here ϵ_g denotes the modulus of the

On the Forces of Interaction Between the Earth's Core and Crust Occurring in Consequence of the Nutation. 20-6-9/48

vector G , that is, of the kinetic moment of the earth's crust; moreover it is valid $\Omega = \omega t$, where t denotes the time). The moment occurring in consequence of the fundamental nutational motion

can be described as a sum of $\vec{U}_1 + \vec{U}_2$. Here it is valid

$\vec{U}_2 = -0",032\alpha\gamma_g e^{-i\omega t}$. 2) The inversion of the direction of the

vector V_1 . (Here the moment occurring in consequence of the half-monthly nutation can be put down in the form of the sum

$\vec{V}_1 + \vec{V}_2$ with $\vec{V}_1 = 0",0023 \beta g_g e^{+i\beta t}$, $\vec{V}_2 = -0",0001 \beta g_g e^{-i\beta t}$.

3) The derivation of V_1 and V_2 to that side which is contrary to the direction of rotation of these vectors with regard to the earth. An exact conformity of the theoretical conclusions with the observations cannot be expected because of the rough model that has been applied here. For further precision of these results it is necessary to analyse new data of observations. There are 9 references, 5 of which are Slvic.

Card 2/3

20-6-9/48

On the Forces of Interaction Between the Earth's Core and Crust Occurring
in Consequence of the Nutation.

ASSOCIATION: ~~Poltava~~ Gravimetric Observatory, AN of the Ukrainian SSR
(Poltavskaya gravimetricheskaya observatoriya AN USSR)

PRESENTED: By Academician V.G.Fesenkov, April 2, 1957

SUBMITTED: April 1, 1957.

AVAILABLE: Library of Congress

Card 3/3

PHASE I BOOK EXPLOITATION

1189

Fedorov, Yevgeniy Pavlovich

Nutatsiya i vynuzhdennoye dvizheniye polyusov zemli po dannym shirotnykh nablyudeniym (Nutation and Forced Motion of the Earth's Poles Based on Data from Latitude Observations) Kiyev, Izd-vo AN Ukrainskoy SSR, 1958. 142 p. 1,000 copies printed.

Sponsoring Agency: Akademiya nauk Ukrainskoy SSR. Poltavskaya gravimetricheskaya observatoriya. Resp. Ed.: Aksent'eva, Z.M., Corresponding Member AN Ukr SSR

PURPOSE: The book is intended for scientists and graduate students working in the field of astronomy and geophysics.

COVERAGE: The author develops a theory of rotation for an elastically deformable Earth and compares his conclusions with the results of latitudinal observations. Such observations are utilized to determine independently the coefficients of the main members of nutation in an inclined plane and longitude. The author discusses the phase retardation of nutation and formulates equations for the forced movement of the Earth's poles. This study leads to several conclusions affect-

Card 1/4

Nutation and Forced Motion (Cont.,)

1189

ing our understanding of the interaction between the Earth's core and mantle. The work includes 17 figures and 30 tables. Scientists mentioned: N.I. Idel'son, N.A. Popov. There are 59 references, of which 20 are Soviet, 24 English, 10 German, 4 French, and 1 Czech.

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Nutation and Motion (Cont.)

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AVAILABLE: Library of Congress

Card 4/4

MM/gap
2-26-59

*AUTHOR:

Fedorov, Ye.P.

SOV/10-59-1-5/32

TITLE:

~~Some Problems of the Physics of the Earth at the~~
Tenth Congress of the International Astronomical
Union (Nekotoryye problemy fiziki zemli na X s"yez-
de mezhdunarodnogo astronomicheskogo soyuza)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Seriya geografiche-
skaya, 1959, Nr 1, pp 48-51 (USSR)

ABSTRACT:

This article gives a brief account of the activity
of the above-named congress, which took place in
Moscow from 12 to 20 August 1958. Among other
things, it dealt with irregularities in the rotation
of the earth and studies in the movements of the
earth's poles. The congress was attended by a num-
ber of astronomers, that included L. Essen and G.
Dzheffris from England, A. Danzhon and N.M. Stoyko

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SOV/10-59-1-5/32
Some Problems of the Physics of the Earth at the Tenth Congress
of the International Astronomical Union

from France, V. Markovits and D. Brower from the
USA.

ASSOCIATION: Poltavskaya gravimetriceskaya observatoriya AN
UkrSSR (Gravimetric Observatory of the AS UkrSSR,
in Poltava)

Card 2/2

FEDEROV, Ye. P.

PHASE I BOOK EXPLOITATION

867/5742

26

Akademiyu nauk SSSR. Mezhdunarodnyy komitet po provedeniyu Mezhdunarodnogo geofizicheskogo goda. VIII razdel programy IZG: Shiroty i dolgoty.

Prodanitel'nyye rezul'taty issledovaniy kolebaniy shirot i dvizheniya polusov zemli; sbornik statey (Preliminary Data of Latitude Variations and Migrations of the Earth's Poles; Collected Articles. No. 1) Moscow, Izd-vo AN SSSR, 1960. 97 p. Errata slip inserted. 1,000 copies printed.

PURPOSE: This collection of articles is intended for astronomers, geophysicists, and other scientists concerned with the problem of latitude variations and the migration of the Earth's poles.

COVERAGE: Part I of the collection contains preliminary results of latitude observations from 1957.5 through 1959.0 made at IGY stations in the USSR network, including new stations in Siberia. Part II consists of articles describing new instruments, observational programs and methods, and procedures of processing the latitude observational data. With the larger number of stations and the use of new instruments it is anticipated that the final results will provide a more comprehensive study of anomalies and instrumental

Card 1/5

Preliminary Data of Latitude Variations (Cont.)

EST/5742

errors in latitude observations than has been possible previously. No personalities are mentioned. English abstracts and references follow each article.

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7

Zevtashenko, Ye. I., I. P. Gerasimuk, and O. V. Chuprunova. Observations of Talcott Pairs at the Poltava Gravitational Observatory of the Ukrainian Academy of Sciences (Zeiss Zenith-Telescope)

9

Popov, I. A. Observations of Bright Zenith Stars at the Poltava Gravitational Observatory of the Ukrainian Academy of Sciences (Zeiss Zenith-Telescope)

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Preliminary Data of Latitude Variations (Cont.)

ECI/5742

26

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Preliminary Data of Latitude Variations (Cont.)

SOV/5742

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FEDOROV, YE. P.

PHASE I BOOK EXPLOITATION

501/5721

Vsesoyuznaya astronomicheskaya konferentsiya.

Trudy 14-y Astronomicheskoy konferentsii SSSR, Kiyev, 27-30 maya 1958 g.
(Transactions of the 14th Astronomical Conference of the USSR, Held in Kiyev
27-30 May 1958) Moscow, Izd-vo AN SSSR, 1960. 440 p. Errata slip inserted.
1000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Glavnaya astronomicheskaya observatoriya
(Pulkovo).

Resp. Ed.: M. S. Zverev, Corresponding Member, Academy of Sciences USSR; Ed. of
Publishing House: N. K. Zaychik; Tech. Ed.: R. A. Zamarayeva.

PURPOSE: The book is intended for astronomers and astrophysicists, particularly
those interested in astronomical research.

COVERAGE: This publication presents the Transactions of the 14th Astronomical
Conference of the USSR, held in Kiyev 27-30 May 1958. It includes 27 reports
and 55 scientific papers presented at the plenary meeting of the Conference

Card 4/5

Transactions of the 14th Astronomical (Cont.)

507/5721

and at the special sectional meetings. An appendix contains the resolutions adopted by the Conference, the composition of the committees, the agenda, and the list of participants at the Conference. A brief summary in English is given at the end of each article. References follow individual articles. The Presidium of the Astronomical Committee (Chairman M. S. Zverev), which supervised the preparation of this publication, expresses thanks to the members of the secretariat: V. M. Vasil'yev, I. G. Kol'chinskii, A. B. Oe-gina, and Kh. I. Potter.

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FEDOROV, Ye.P., doktor fiziko-matem.nauk

Forty-five hundred and forty kilograms are in orbit. Znan.ta prat-
sia no.7:3 J1 '60. (MIRA 13:8)

1. Direktor Glavnogo astronomicheskoy observatorii An USSR.
(Artificial satellites)

ORLOV, Aleksandr Yakovlevich, zasl. deyatel' nauki USSR [1880-1954]; AK-
SENT'YEVA, Z.N., otv. red.; LAVRENT'YEVA, Ye.V., starshiy nauchnyy
sotr., red.; POPOV, N.A., starshiy nauchnyy sotr., red.; FEDOROV,
Ya.P., starshiy nauchnyy sotr., red.; ORLOV, B.A., starshiy nauchnyy
sotr., red.; LABINOVA, N.M., red. izd-va; RAKHLINA, N.P., tekhn. red.

[Selected works in three volumes] Izbrannyye trudy v trekh tomakh.
Kiev, Izd-vo Akad. nauk USSR. Vol.1. 1961. 353 p. (MIRA 14:10)

1. Deystvitel'nyy chlen AN USSR i chlen-korrespondent AN SSSR
(for Orlov). 2. Chlen-korrespondent AN USSR (for Aksent'yeva).
 3. Poltavskaya gravimetricheskaya observatoriya (for Lavrent'yeva,
Popov, Fedorov). 4. Glavnaya astronomicheskaya observatoriya v Pul-
kove (for Orlov, B.A.).
- (Astronomy) (Earth) (Latitude)
(Orlov, Aleksandr Yakovlevich, 1880-1954)

ORLOV, Aleksandr Yakovlevich, zasl. deyatel' nauk USSR; AKSENT'YEVA, Zh.N.,
otv. red.; LAVRENT'YEVA, Ye.V., starshiy nauchnyy sotr., red.;
POPOV, N.A., starshiy nauchnyy sotr., red.; FEDOROV, Ye.P.,
starshiy nauchnyy sotr., red.; ORLOV, B.A., starshiy nauchnyy
sotr., red.; LABINOVA, N.M., red. izd-va; RAKHLINA, N.P., tekhn.
red.

[Selected works in three volumes] Izbrannyye trudy v trekh tomakh.
Kiev, Izd-vo Akad. nauk USSR. Vol.3. 1961. 242 p. (MIRA 15:1)

1. Deystvitel'nyy chlen AN USSR, Chlen-korrespondent AN SSSR (for
Orlov). 2. Chlen-korrespondent AN USSR (for Aksept'yev). 3. Pol-
tavskaya gravimetricheskaya observatoriya (for Lavrent'yeva,
Popov, Fedorov). 4. Glavnaya astronomicheskaya observatoriya v
Pulkove (for Orlov).

(Geophysics)

FEDOROV, Ye.P. [Fedorov, Ye.P.]; GLAGOLEVA, I.I. [Hlabolieva, I.I.]

Flattening of latitude observations. Dop. AN URSR no.4:473-477
'62. (MIRA 15:5)

1. Glavnaya astronomicheskaya observatoriya AN USSR. 2. Chlen-
korrespondent AN USSR (for Fedorov).
(Astronomical geography) (Electronic digital computers)

PANCHENKO, N.I.; FEDOROV, Ye.P.

Determination of polar coordinates for use of the time
service. Trudy inst. Kom., stand., mer i izm. prib.
no.58:39-64 '62. (MIRA 15:11)
(Time--Systems and standards)
(Coordinates, Polar)

FEDOROV, Ye. P.

Plenum of the Commission for studying the Earth's Rotation. Vest.
AN SSSR 32 no.8:120-122 Ag '62. (MIRA 15:8)

1. Chlen-korrespondent AN USSR.
(Earth-Rotation)

FLEYEĭ, A.G., otv. red.; PAVLOV, M.N., red.; PANCHENKO, N.I., red.;
PODOBED, V.V., red.; FEDOROV, Ye.P., red.

[Rotation of the earth; materials of the expanded plenum
of the Committee for the Study of the Earth's Rotation of
the Astronomical Council of the Academy of Sciences of the
U.S.S.R. on April 10-13, 1962, in Kiev] Vrashchenie Zemli;
materialy rasshirennogo plenuma Komissii po izucheniiu
vrashchenia Zemli Astronomicheskogo soveta AN SSSR, Kiev,
10-13 aprelia 1962 g. Kiev, Izd-vo AN USSR, 1963. 309 p.
(MIRA 17:9)

1. Akademiya nauk URSR, Kiev. Holovna astronomichna obser-
vatoriya.

FEDOROV, Ye.P. [Fedorov, IE.P.]

In the depths of the planet. Nauka i zhyttia 13 no.10:
24-25 N '63. (MIRA 16:12)

1. Direktor Glavnoy astronomicheskoy observatorii AN UkrSSR,
chlen-korrespondent AN UkrSSR.

FEDOROV, Ya. P., otv. red.; LUKATSKAYA, F.I., red.; GORYNYA, A.A., red.; KOLCHINSKIY, I.G., red.; BEREZINETS, L.P., red.

[Studies in the physics of stars and diffusion matter] Issledovaniia po fizike zvezd i diffuznoi materii. Kiev, Naukova dumka, 1964. 74 p. (MIRA 17:11)

1. Akademiya nauk URSR, Kiev. Holovna astronomichna observatoriya.

FEDOROV, Ye.P., otv. red.; GORYNYA, A.A., red.; KOLCHINSKIY, I.G.,
red.; LUKATSKAYA, F.I., red.; BEREZINETS, L.P., red.

[Problems in astrometry] Voprosy astrometrii. Kiev,
"Naukova dumka," 1964. 94 p. (MIRA 17:6)

1. Akademiya nauk URSR, Kiev. Holovna astronomichna ob-
servatoriya.

KOVAL', I.K., otv. red.; FEDOROV, Ye.P., red.; GORYNYA, A.A., red.;
KOLCHINSKIY, I.G., red.; LUKATSKAYA, F.I., red.;
BEREZINETS, L.P., red.

[Physics of the moon and planets] Fizika Luny i planet.
Kiev, Naukova dumka, 1964. 137 p. (MIRA 17:10)

1. Akademiya nauk URSR, Kiev. Holovna astronomichna ob-
servatoriya.

FEDOROV, Ya.F.

Allocation of operating frequencies for ZhB-5 transmitter-receiver units. Avtom. telem. i svyaz' 8 no.1:36 Ja '64. (MIFA 17:3)

1. Starshiy inzh. Moskovsko-Okruzhnoy distantstii signalizatsii i svyazi Moskovskoy dorogi.

ACCESSION NR: AP4046588

THE NATIONAL INTELLIGENCE ARCHIVES
OF THE UNITED STATES DEPARTMENT OF STATE

OFFICE OF THE DIRECTOR OF NATIONAL INTELLIGENCE

NO. 1: none

NO. 2: none

NO. 3: AA

NO. 4: REF. SOURCE: 1

Laroleva, I. I.; Fedorov, Ye. A.

ANALYSIS OF THE SPECTRUM OF LATITUDE

VARIATIONS IN THE ARCTIC REGION

Abstract: The spectrum of latitude variations in the Arctic region is analyzed. The spectrum is characterized by a peak at a period of 10 years. The amplitude of the variations is 1.5 degrees.

Analysis of the accuracy of latitude variations data at the Arctic stations is carried out.

As shown in Fig. 1 of the Enclosure. The determination of latitude variations is described as the calculation of standard latitude values, i.e., mean values for certain time intervals, and 2) the smoothing of these values. To accomplish this the authors used the method of moving averages. Both

L 8748-65

ACCESSION NR: AP4040850

of the spectrum, while the smoothing transforms $S(\lambda)$ are real
deviations of λ from λ_0

ASSOCIATION: Glavnaya astronomicheskaya observatoriya Akademii nauk
USSR (Main Astronomic Observatory, Academy of Sciences)

ACCESSION NR: AP4040650

ENCLOSURE: D!

Fig. 1. Relationships of spectral-density
errors

$P^2(\omega)$ - square of the transfer function of

KORSUN', A.A.; YAKUSHEVA, N.B.; YATSIKOV, Ya.S.; FEDOROV, Y. .P.,
otv. red.

[Results of observations with zenith telescopes in 1960-1963: Pulkovo, Gorkiy, Kitab, Poltava, Kazan, Irkutsk, Blagoveshchensk] Rezul'taty nabludeni na zenit-teleskopakh v 1960-1963 gg.: [Pulkovo, Gor'kii, Kitab, Poltava, Kazan', Irkutsk, Blagoveshchensk.] Moskva, 1964. 50 p.

(MIRA 18:5)

1. Akademiia nauk URSR, Kiev, Holovna astronomichna observatoriia. 2. Chlen-korrespondent AN Ukr.SSR (for Fedorov).

FEDOROV, Ye.P., ed. red.; GORNYI, A.A., red.; KOLCHINSKIY, I.G.,
red.; LUKATSKAYA, F.I., red.; BEREZINETS, L.P., red.

[Spectrophotometric studies of active formations on the
sun] Spektrofotometricheskie issledovaniya aktivnykh ob-
razovaniy na Solntse. Kiev, Naukova dumka, 1964. 104 p.
(MIRA 17:12)

1. Akademiya nauk URSR, Kiev. Holivna astronomichna obser-
vatoriya.

YAKOVKIN, A.A., otv. red.; FEDOROV, Ye.P., red.; AKSENT'YEVA,
Z.N., red.; BARABASHOV, N.P., red.; BOGORODSKIY, A.F.,
red.; GORVNYA, A.A., red.; KOVAL', I.K., red.;
KOLCHINSKIY, I.G., red.; TSESEVICH, V.P., red.;
KOVALENKO, L.D., red.

[Figure and motion of the moon] Figura i dvizhenie Luny.
Kiev, Naukova dumka, 1965. 135 p. (MIRA 18:7)

1. Akademiya nauk URSR, Kiev.

1. FEDOROV, YE. P., Eng.

2. USSR (600)

4. Road Machinery

7. heavy trailer grader D-20B. Mekh. stroi. 9, No. 10, 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

1. ROZDOLSKY, V. K.; FEDOROV, YE. P., Engs.

2. USSR (600)

4. Road Machinery

7. Self-propelled medium type grader D-265. Mekh. stroi. 9, No. 10, 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

FEDOROV, Y.E.P.

TARASOV, V.A., inzhener; FEDOROV, Ye.P., inzhener, retsenzent; NEMIROVSKIY,
B.I., inzhener, redaktor; MOSEV, B.I., tekhnicheskiy redaktor

[Automotive asphalt-concrete placer] Samokhodnyi ukladchik asfal'to-
betona. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. i sudo-
stroit. lit-ry, 1953. 122 p. [Microfilm] (MLRA 7:10)
(Road machinery)

VENTSKOVSKIY, Z.I., inzhener; ~~FEDOROV~~ FEDOROV, Ye.P., inzhener.

The D-255 motor grader. Vest.mash. 33 no.9:27-30 S '53. (MLBA 6:10)
(Road machinery)

FEDOROV, Ye.P., inzh.

New D-426 automotive grader. Stroi. i dor. mashinostr. no.4:14-16
Ap '58. (MIRA 11:4)

(Graders (Earthmoving machinery))

ANTIPOV, L.A., inzh.; LEZHEPEKOV, B.S., inzh.; STAVTSEV, B.N., inzh.;
FEDOROV, Ye.P., inzh.

Improving the design of motor graders at the Orlov Factory.
Stroi.i dor.mash. 7 no.2:7-9 F '62. (MIRA 15:5)
(Graders (Earthmoving machinery))

FEDOROV, Ye.P.; SHAL'MAN, Yu.I., kand. tekhn. nauk

Evaporation combustion chamber of a gas-turbine engine and
characteristics of its operation. Avt. prom. 30 no.5:42-
45 My '64. (MIRA 17:9)

FEDOROV, Ye.P.; YATSKIV, Ya.S.

Causes of the spurious "bifurcation" of the period of the
earth's free nutation. Astron. zhur. 41 no.4:764-768
Jl-Ag '64 (MIRA 17:8)

1. Glavnaya astronomicheskaya observatoriya AN UkrSSR.

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AUTHOR: Fedorov, Ye. P., Shal'man, Yu. I. (Candidate of technical sciences)

TITLE: Vaporizing combustion chambers of gas turbine engines and the features of their operation

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ABSTRACT: In foreign gas turbine engines of low horsepower annular vaporizing combustion chambers are now being used instead of atomizer combustion chambers. Such engines are being manufactured in the U.S.A., England and Japan. The present paper describes such engines with slot, direct flow and other vaporizing chambers. The entire process is subdivided into fuel evaporation, flow of the steam-air mixture in the fire tube, and mixture of the enriched mixture with air while flowing. The process is described in detail on the basis of publications by W.D. Pouchot, I.R. Hamm, F.D. Williams, papers in "The Aero-plane" and "MTZ Journal", as well as a paper by L. Savari, M. Kunugi and H. Ginn. The results of tests indicated that introduction of vaporized fuel simplifies the process. The

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fuel system must ensure only a precise fuel feed into the vaporizing parts and not atomization. This results in lower pressures, simplifying the fuel equipment by making possible the use of large-size fuel jets. The vaporizing combustion chamber has a low level of carbon formation. These advantages of the vaporizing combustion chamber make it suitable for use in the future for an aircraft engine. It is possible to use it in connection with

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FEDOROV, E. S.

*Fedorov, E. S. *Nachala ucheniya o figurakh*. [Elements of the study of figures.] Izdat. Akad. Nauk SSSR, Moscow, 1951. 410 pp. (5 plates). 16.35 rubles.

Fedorov's work appeared originally in *Zapiski Mineralogicheskoi Observatorii* (2) 21, 1-279 (1955). This edition contains also an essay on the significance of this work for crystallography by V. A. Frank-Kamenetskii and notes on the work by O. M. Anshel's, I. I. Soltz, Novoskii and Frank-Kamenetskii.